EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	18	eleni near2 shiferaw	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:13
L2	850	726/22.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:13
L3	561	726/23.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:24
L4	315	726/25.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:13
L5	384	713/188.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:13
L6	0	((malware or virus or intrusion) and "log data" and threshold and network$1wide and detect$4 and pattern and scan$4).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:27
L7	0	((malware or virus or intrusion) and "log data" and threshold and network$1wide and detect$4 and pattern and sum and scan$4).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:27
L8	0	((malware or virus or intrusion) and "log data" and threshold and network$1wide and detect$4 and pattern and sum).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 12:27
S1	5	"epolicy orchestrator"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 12:16

S2	0	"malware policy server"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 10:46
S3	1	"malware policy"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 10:46
S5	264	(malicious adj (software or firmware))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 10:50
S6	1	"malware server"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 10:53
S7	8	"malware protection"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 12:46
S9	31	"virus definition data"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 12:54
S10	1	"09957673"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 13:06
S11	2	"6094731".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/12/14 16:13
S12	2	"4788637".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:11
S13	2	((trojans or virus or malicious or worm) adj scan$4) same (log adj (file or message or data)) same detect$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/14 11:51

EAST Search History

S14	3	((trojans or virus or malicious or worm) adj protect$3) same (log adj (file or message or data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:22
S15	6	((trojans or virus or malicious or worm) adj detect$3) same (log adj (file or message or data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:34
S16	12	((trojans or virus or malicious or worm or malware) adj detect$3) same (log adj (file or message or data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:22
S17	1	((trojans or virus or malicious or worm) adj detect$3) with (log adj (file or message or data)).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:35
S20	0	((trojans or virus or malicious or worm) adj (identif$5 or indicat$4 or locat$4)) with (log adj (file or message or data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:39
S21	7	((trojans or virus or malicious or worm) with (identif$5 or indicat$4 or locat$4)) with (log adj (file or message or data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 15:07
S22	2	"6581207".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:57
S23	3	"6717943".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 14:58
S24	429	(anti adj2 (malware or trojans or virus or malicious or worm)) same (isolat$5 or updat$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 15:09
S25	190	(anti adj2 (malware or trojans or virus or malicious or worm)) same (isolat$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/13 15:09

EAST Search History

S26	50	(anti adj2 (malware or trojans or virus or malicious or worm)) same ((isolat$5) with (infected or device or computer))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/14 07:01
S27	8	(anti adj2 (malware or trojans or virus or malicious or worm or (banned adj (file or data)))) same ((isolat$5 or avoid$3 or neglect$3 or leav$3 or left) near3 (((virus or infected) adj (device or computer or node))) or (portion near3 network))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/14 07:08
S28	476	(anti adj2 (malware or trojans or virus or malicious or worm or (banned adj (file or data)))) same ((isolat$5 or avoid$3 or neglect$3 or leav$3 or left) near3 (((virus or infected) adj (device or computer or node))) or (portion near3 network) or (action or delet$3 or updat$3 or (scan$5 near2 (more or all or entire)) or (chang$3 near scanner near set$5)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/14 11:51
S29	6	(detect$4 near3 (trojans or virus or malicious or worm)) same updat$3 same ((more or entire all) near2 scan$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/14 11:57
S30	244	(detect$4 near3 (trojans or virus or malicious or worm)) same updat$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/15 14:15
S31	2	(detect$4 near3 (trojans or virus or malicious or worm)) with (scan$3 near4 (more or further or all))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/15 14:19
S32	13	(detect$4 near3 (trojans or virus or malicious or worm)) same (scan$3 near4 (more or entire or further or all))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/15 15:01
S34	106	713/201.ccls. and (detect$3 or determin$3) near3 (virus or trojan or malware or malicious or worm) with (perform$3 or act$3 or treat$3 or vaccin$3 or inject$3 or delet$3 or (set$3 near2 scann$3) or alarm$3 or notify$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/15 15:06

S35	51	713/201.ccls. and (detect$3 or determin$3) near3 (virus or trojan or malware or malicious or worm) with (perform$3 or act$3 or treat$3 or vaccin$3 or inject$3 or delet$3 or (set$3 near2 scann$3) or alarm$3 or notify$3) and @ad <= "20020107"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/15 15:06
S36	2	"20030084322".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/12 11:05
S37	15	pattern near4 virus signature	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/08/12 11:06
S38	2	"20020159589".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2005/11/02 11:38
S40	2	network$1based near6 (virus near detect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/13 17:12
S41	183	network near6 (virus near detect$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/13 17:14
S42	33	network near6 (virus near detect$4).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:12
S43	230	726/24.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:26
S44	465	726/22.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:27

EAST Search History

S45	310	726/23.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:27
S46	151	726/25.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/02/14 09:27
S47	24	chefalas and "international business machines" and "2001"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/07/19 12:06
S48	2	"5842002".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/07/19 12:07
S49	81	(pattern near9 updat$) same virus	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/07/19 12:08
S50	2	"5832208".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/07/19 14:30
S51	186	signature near9 updat$4 same virus	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/07/19 14:30
S59	9	((intrusion detection) adj threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/14 16:44
S60	1	(anamoly near3 detection).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/14 16:45
S61	0	(anamoly near3 detection).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/14 16:45

EAST Search History

S62	7	anamoly near3 detection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/15 06:34
S63	365	"intrusion detection" and threshold and virus	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/15 06:35
S64	181	"intrusion detection" and threshold and virus and "726"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/15 06:35
S65	2	"7093293".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/18 06:26
S66	2	"6886099".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/18 06:28
S67	2	"7036148".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/18 06:28
S69	1090	726/26.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/18 11:05
S70	6	726/26.ccls. and (intrusion detection) and virus and (threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/18 11:06
S71	40412	(pattern or signature) same threshold	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 12:17
S72	52	((pattern or signature) same threshold) and 726/22.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 12:23

EAST Search History

S73	1	scanner and (log (data or message)) and threshold and (network$1wide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/24 15:46
S74	1	scanner and (log (data or message or info$7)) and threshold and (network$1wide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/24 15:47
S75	42	(log (data or message or info$7)) and threshold and (network$1wide)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/25 09:51
S76	0	(log (data or message or info$7)) and threshold and (network$1wide) 726/22.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/05/24 15:47

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1 Synthesis and Optimization of Threshold Logic Networks with Application to Nanotechnologies   ◼
Rui Zhang, Pallav Gupta, Lin Zhong, Niraj K. Jha
February 2004 **Proceedings of the conference on Design, automation and test in Europe - Volume 2**
DATE '04
Publisher: IEEE Computer Society
Full text available: 📄 pdf(272.65 KB)   Additional Information: full citation, abstract, index terms

> We propose an algorithm for efficient threshold network synthesis of arbitrary multi-output Boolean
> functions. The main purpose of this work is to bridge the wide gap that currently exists between
> research on the development of nanoscale devices and research on the development of synthesis
> methodologies to generate optimized networks utilizing these devices. Many nanotechnologies, such
> as resonant tunneling diodes (RTD) and quantum cellular automata (QCA), are capable of
> implementing threshold lo ...

2 Network and service management for wide-area electronic commerce networks   ◼
Symeon Papavassiliou
March 2001 **International Journal of Network Management**, Volume 11 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: 📄 pdf(410.91 KB)   Additional Information: full citation, abstract, references, index terms

> This paper focuses on the effective management of wide‐area electronic commerce
> networks supporting services and applications that require high availability and reliability as well as
> fast reconstitution time, in the event of failures. Copyright © 2001 John Wiley & Sons, Ltd.

3 Ad hoc networks: Improving spatial reuse through tuning transmit power, carrier sense   ◼
threshold, and data rate in multihop wireless networks
Tae-Suk Kim, Jennifer C. Hou, Hyuk Lim
September 2006 **Proceedings of the 12th annual international conference on Mobile computing and**
networking MobiCom '06
Publisher: ACM Press
Full text available: 📄 pdf(352.77 KB)   Additional Information: full citation, abstract, references, index terms

> The importance of spatial reuse in wireless ad-hoc networks has been long recognized as a key to
> improving the network capacity. One can increase the level of spatial reuse by either reducing the
> transmit power or increasing the carrier sense threshold (thereby reducing the carrier sense range).
> On the other hand, as the transmit power decreases or the carrier sense threshold increases, the
> SINR decreases as a result of the smaller received signal or the increased interference level.
> Consequentl ...
>
> **Keywords:** carrier sense threshold, power control, spatial reuse, wireless ad-hoc networks

4 Efficient load balancing for wide-area divide-and-conquer applications   ◼
Rob V. van Nieuwpoort, Thilo Kielmann, Henri E. Bal
June 2001 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN symposium on**
Principles and practices of parallel programming PPoPP '01, Volume 36 Issue 7
Publisher: ACM Press
Full text available: 📄 pdf(118.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

> Divide-and-conquer programs are easily parallelized by letting the programmer annotate potential
> parallelism in the form of spawn and sync constructs. To achieve efficient program execution, the
> generated work load has to be balanced evenly among the available CPUs. For single cluster
> systems, Random Stealing (RS) is known to achieve optimal load balancing. However, RS is
> inefficient when applied to hierarchical wide-area systems where m ...

Keywords: Java, clustered wide-area systems, distributed supercomputing

5 Optimal tradeoffs for location-based routing in large-scale ad hoc networks
Taejoon Park, Kang G. Shin
April 2005   **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 2
Publisher: IEEE Press
Full text available: pdf(564.75 KB)   Additional Information: full citation, abstract, references, index terms

Existing location-based routing protocols are not versatile enough for a large-scale ad hoc
environment to simultaneously meet all of the requirements of scalability, bandwidth efficiency,
energy efficiency, and quality-of-service routing. To remedy this deficiency, we propose an optimal
tradeoff approach that: 1) constructs a hybrid routing protocol by combining well-known location-
update schemes (i.e., proactive location updates within nodes' local regions and a distributed
location service), ...

Keywords: location-based routing, mobile ad hoc networks, optimal tradeoffs, random mobility
model

6 In-network processing: Capturing high-frequency phenomena using a bandwidth-limited sensor
network
Ben Greenstein, Christopher Mar, Alex Pesterev, Shahin Farshchi, Eddie Kohler, Jack Judy, Deborah
Estrin
October 2006   **Proceedings of the 4th international conference on Embedded networked sensor
systems SenSys '06**
Publisher: ACM Press
Full text available: pdf(853.96 KB)   Additional Information: full citation, abstract, references, index terms

Small-form-factor, low-power wireless sensors-motes-are convenient to deploy, but lack the
bandwidth to capture and transmit raw high-frequency data, such as human voices or neural
signals, in real time. Local filtering can help, but we show that the right filter settings depend on
changing ambient conditions and network effects such as congestion, which makes them dynamic
and unpredictable. Mote collection systems for high-frequency data must support iteratively-tuned,
deployment-specific filte ...

Keywords: acoustics, health monitoring, motes, sensor networks, signal processing frameworks

7 Service, mobility, topology, channel modeling: Coordinated data aggregation in wireless sensor
networks using the Omega failure detector
Mikel Larrea, Cristian Martín, José Javier Astrain
October 2006   **Proceedings of the 3rd ACM international workshop on Performance evaluation of
wireless ad hoc, sensor and ubiquitous networks PE-WASUN '06**
Publisher: ACM Press
Full text available: pdf(240.62 KB)   Additional Information: full citation, abstract, references, index terms

We present an algorithm implementing the failure detector class omega (Ω) in the crash-recovery
model to coordinate data aggregation in wireless sensor networks. The algorithm ensures the
agreement on a common aggregator by all sensors of a region, as well as on a common super-
aggregator among the set of aggregators of the network, hence providing a hierarchical energy-
efficient data aggregation mechanism. We also introduce a battery depletion threshold to enhance
the quality of service of ...

Keywords: data aggregation, failure detector, wireless sensor network

8 Enhanced distributed explicit rate allocation for ABR services in ATM networks
Nasir Ghani, Jon W. Mark
February 2000   **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1
Publisher: IEEE Press
Full text available: pdf(401.96 KB)   Additional Information: full citation, references, citings, index terms

Keywords: available bit-rate services, feedback flow control, max-min fairness, weighted fairness

9 Explicit rate flow control for ABR services in ATM networks
Ching-Fong Su, Gustavo de Veciana, Jean Walrand
June 2000   **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3
Publisher: IEEE Press

Full text available: pdf(388.02 KB)   Additional Information: full citation, references, citings, index terms

Keywords: ABR service, ATM networks, delay differential equations, explicit rate flow control

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10   Signal threshold adaptation for vertical handoff in heterogeneous wireless networks
Ahmed H. Zahran, Ben Liang, Aladdin Saleh
August 2006   **Mobile Networks and Applications**, Volume 11 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(2.74 MB)   Additional Information: full citation, abstract, references, index terms

The convergence of heterogeneous wireless access technologies has been envisioned to characterize the next generation wireless networks. In such converged systems, the seamless and efficient handoff between different access technologies (vertical handoff) is essential and remains a challenging problem. The heterogeneous co-existence of access technologies with largely different characteristics results in handoff asymmetry that differs from the traditional intra-network handoff (horizontal handof ...

Keywords: 3G cellular, application signal strength threshold, heterogeneous wireless networks, seamless integration, vertical handoff, wireless LAN

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11   Research track papers: NeMoFinder: dissecting genome-wide protein-protein interactions with meso-scale network motifs
Jin Chen, Wynne Hsu, Mong Li Lee, See-Kiong Ng
August 2006   **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**
Publisher: ACM Press
Full text available: pdf(661.34 KB)   Additional Information: full citation, abstract, references, index terms

Recent works in network analysis have revealed the existence of network motifs in biological networks such as the protein-protein interaction (PPI) networks. However, existing motif mining algorithms are not sufficiently scalable to find meso-scale network motifs. Also, there has been little or no work to systematically exploit the extracted network motifs for dissecting the vast interactomes.We describe an efficient network motif discovery algorithm, NeMoFinder, that can mine meso-scale network ...

Keywords: graph mining, network motif, protein-protein interaction network

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12   Communication systems: Software-directed power-aware interconnection networks
Vassos Soteriou, Noel Eisley, Li-Shiuan Peh
September 2005   **Proceedings of the 2005 international conference on Compilers, architectures and synthesis for embedded systems CASES '05**
Publisher: ACM Press
Full text available: pdf(895.11 KB)   Additional Information: full citation, abstract, references, citings, index terms

Interconnection networks have been deployed as the communication fabric in a wide range of parallel computer systems. With recent technological trends allowing growing quantities of chip resources and faster clock rates, there have been prevailing concerns of increasing power consumption being a major limiting factor in the design of parallel computer systems, from multiprocessor SoCs to multi-chip embedded systems and parallel servers. To tackle this, power-aware networks must become inherent c ...

Keywords: communication links, dynamic voltage, interconnection networks, networks on-a-chip (NoC), scaling, simulation, software-directed power reduction

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13   WTCP: a reliable transport protocol for wireless wide-area networks
Prasun Sinha, Thyagarajan Nandagopal, Narayanan Venkitaraman, Raghupathy Sivakumar, Vaduvur Bharghavan
March 2002   **Wireless Networks**, Volume 8 Issue 2/3
Publisher: Kluwer Academic Publishers
Full text available: pdf(385.79 KB)   Additional Information: full citation, abstract, references, citings, index terms

Wireless wide-area networks (WWANs) are characterized by very low and variable bandwidths, very high and variable delays, significant non-congestion related losses, asymmetric uplink and downlink channels, and occasional blackouts. Additionally, the majority of the latency in a WWAN connection is incurred over the wireless link. Under such operating conditions, most contemporary wireless TCP algorithms do not perform very well. In this paper, we present WTCP, a reliable transport protocol that a ...

Keywords: WTCP, Wireless transport, reliable wireless transmission

14 Query localization techniques for on-demand routing protocols in ad hoc networks
Robert Castañeda, Samir R. Das
August 1999   **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking MobiCom '99**
Publisher: ACM Press
Full text available: pdf(1.03 MB)   Additional Information: full citation, references, citings, index terms

15 Query localization techniques for on-demand routing protocols in ad hoc networks
Robert Castañeda, Samir R. Das, Mahesh K. Marina
March 2002   **Wireless Networks,** Volume 8 Issue 2/3
Publisher: Kluwer Academic Publishers
Full text available: pdf(330.70 KB)   Additional Information: full citation, abstract, references, citings, index terms

Mobile ad hoc networks are characterized by multi-hop wireless links, absence of any cellular infrastructure, and frequent host mobility. Design of efficient routing protocols in such networks is a challenging issue. A class of routing protocols called *on-demand* protocols has recently found attention because of their low routing overhead. We propose a technique that can reduce the routing overhead even further. The on-demand protocols depend on query floods to discover routes whenever a n ...

Keywords: ad hoc networks, flooding, on-demand routing, routing protocols

16 Distributed object implementations for interactive applications
Vijaykumar Krishnaswamy, Ivan B. Ganev, Jaideep M. Dharap, Mustaque Ahamad
April 2000   **IFIP/ACM International Conference on Distributed systems platforms Middleware '00**
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(175.94 KB)   Additional Information: full citation, abstract, references

As computers become pervasive in the home and community and homes become better connected, new applications will be deployed over the Internet. Interactive Distributed Applications involve users in multiple locations, across a wide area network, who interact and cooperate by manipulating shared objects. A timely response to user actions, which can potentially update the state of the objects, is an important requirement of interactive applications. Because of the inherent heterogeneity of the ...

17 Improving Network Operations With Intelligent Agents
Nathan J. Muller
July 1997   **International Journal of Network Management,** Volume 7 Issue 3
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(314.75 KB)   Additional Information: full citation, abstract, index terms

Automating network and system management tasks has never been easier, since the advent of intelligent agents. This article describes the uses and advantages of intelligent agents, to identify and resolve problems locally, instead of dispatching technicians to remote locations, which is both expensive and time‐consuming. © 1997 John Wiley & Sons, Ltd.

18 Toward sophisticated detection with distributed triggers
Ling Huang, Minos Garofalakis, Joseph Hellerstein, Anthony Joseph, Nina Taft
September 2006 **Proceedings of the 2006 SIGCOMM workshop on Mining network data MineNet '06**
Publisher: ACM Press
Full text available: pdf(288.31 KB)   Additional Information: full citation, abstract, references

Recent research has proposed efficient protocols for distributed triggers, which can be used in monitoring infrastructures to maintain system-wide invariants and detect abnormal events with minimal communication overhead. To date, however, this work has been limited to simple thresholds on distributed aggregate functions like sums and counts. In this paper, we present our initial results that show how to use these simple threshold triggers to enable sophisticated anomaly detection in near-real t ...

Keywords: PCA, anomaly detection, distributed triggers

19 A rate-based congestion control scheme for ABR service in ATM networks
Anna Hać, Yingjun Ma
October 1998   **International Journal of Network Management,** Volume 8 Issue 5
Publisher: John Wiley & Sons, Inc.
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pdf(505.39 KB)   full citation, abstract, references, index terms

In this article we describe an improved rate-based congestion control scheme for Available Bit Rate (ABR) service in ATM networks. The analytical results are presented and the characteristics of the designed scheme are illustrated by using simulation results. © 1998 John Wiley & Sons, Ltd.

20 Routing: SHORT: self-healing and optimizing routing techniques for mobile ad hoc networks

Chao Gui, Prasant Mohapatra

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On demand routing protocols provide scalable and cost-effective solutions for packet routing in mobile wireless ad hoc networks. The paths generated by these protocols may deviate far from the optimal because of the lack of knowledge about the global topology and the mobility of nodes. Routing optimality affects network performance and energy consumption, especially when the load is high. In this paper, we define routing optimality using different metrics such as path length, energy consumption ...

Keywords: ad hoc networks, energy-aware SHORT, path-aware SHORT, routing protocol, self-healing and optimizing routing techniques

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